

Figure 2

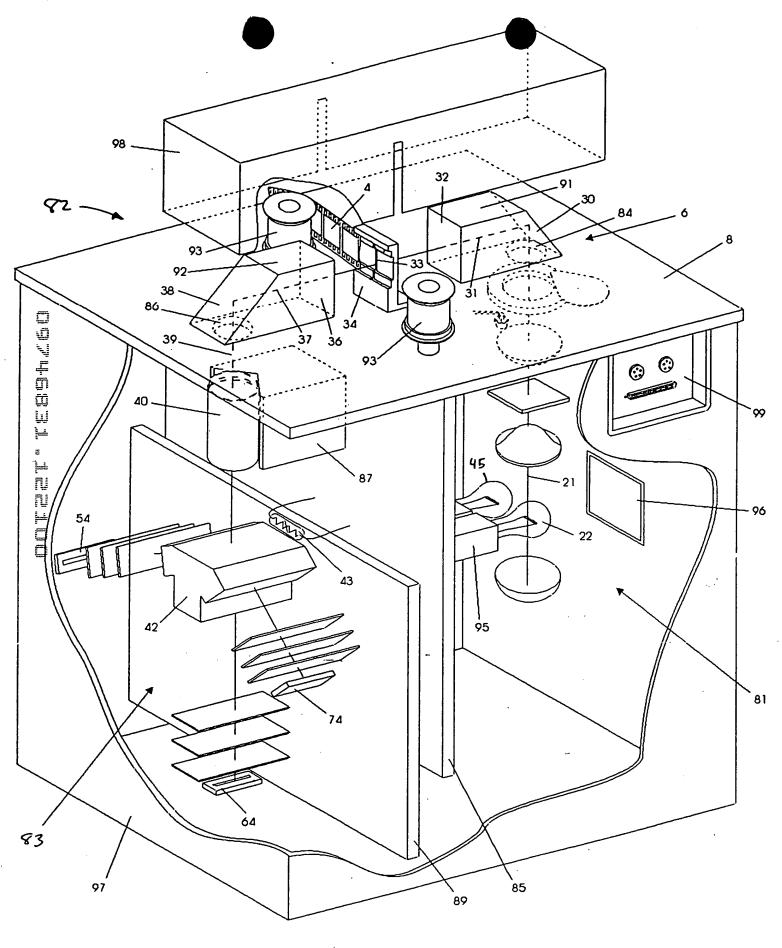
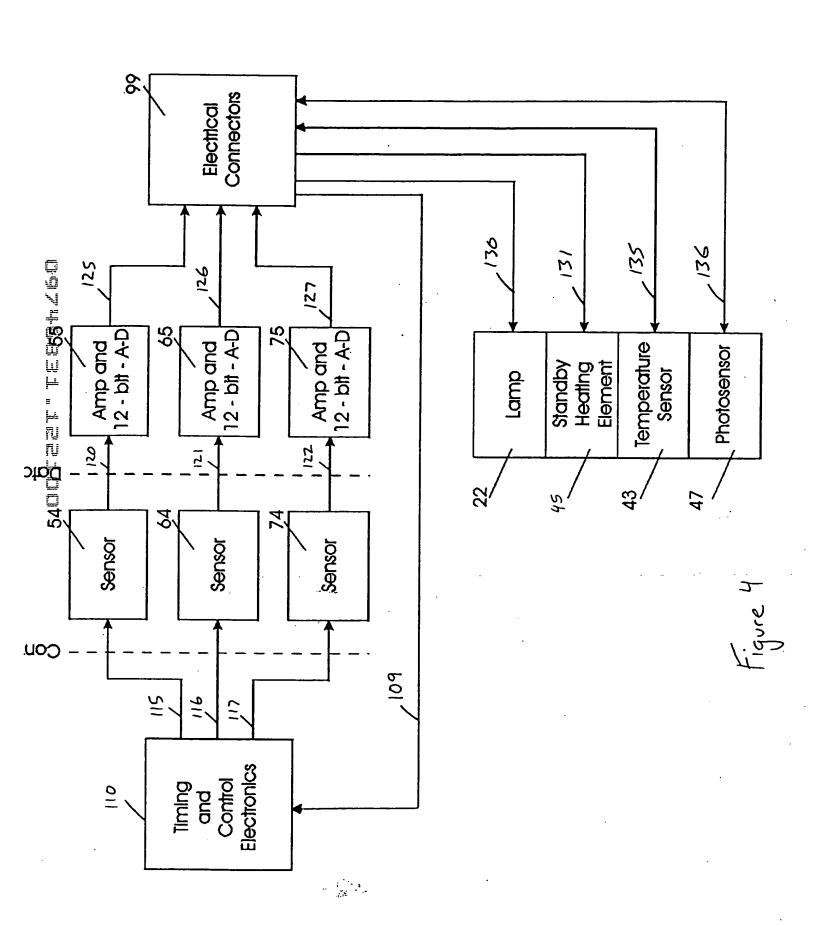


Figure 3



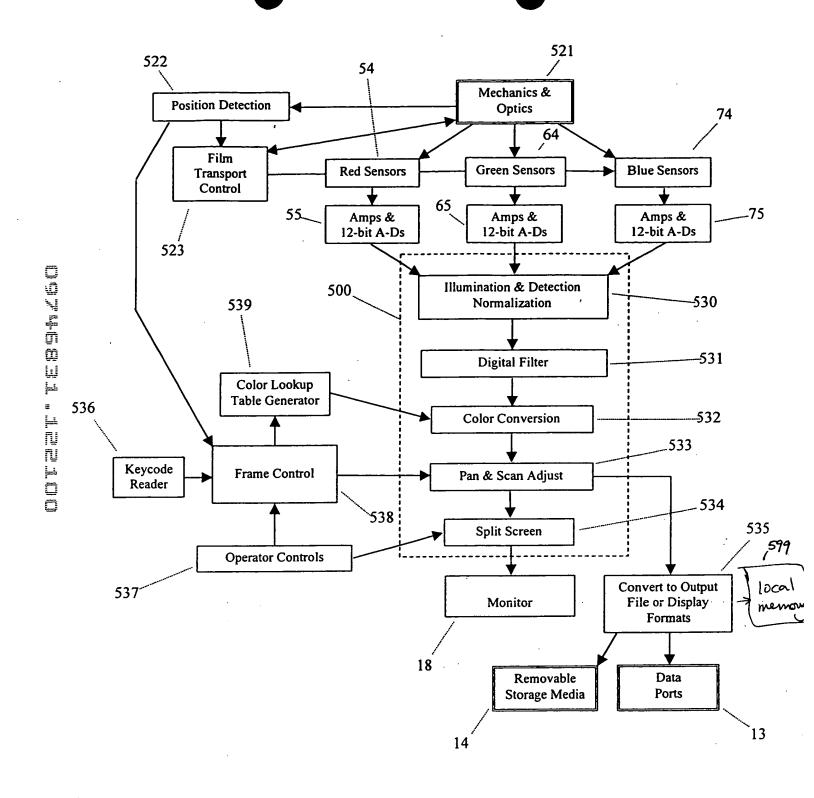


FIG. 5

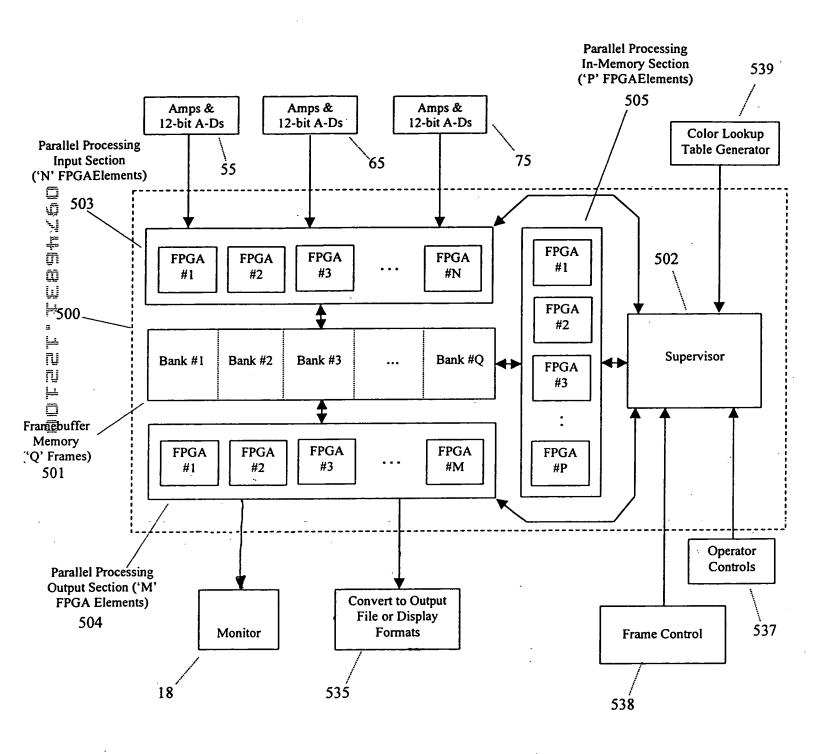


FIG. 6

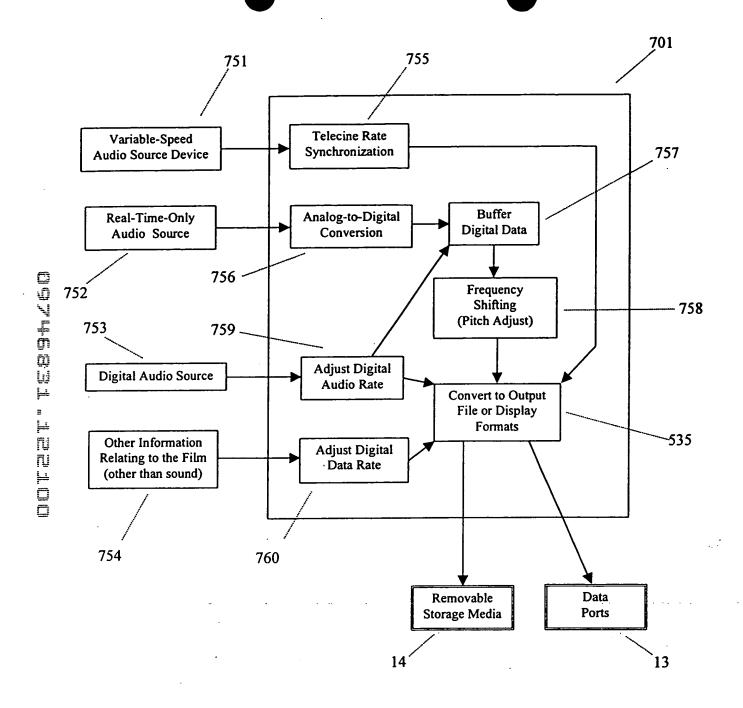


FIG. 7

TABLE A - FILM INPUT FORMATS

35 mm Film Format ¹	Aspect Ratio	Image Width (inches)	Image Height (inches)	Image to Film Frame Ratio
Full-frame (Super 35)	1.33:1	0.981	0.735	1.02
Academy	1.37:1	0.864	0.630	1.18
Anamorphic	1.18:1	0.864	0.630	1.18
1.85:1	1.84:1	0.864	0.469	1.59
3 Perf 1.85:1	1.84:1	0.864	0.560	1.33
TV 4:3	1.33:1	0.816	0.612	1.22
TV 16:9	1.78:1	0.816	0.531	1.41
3 Perf TV 16:9	1.78:1	0.816	0.560	1.33

¹4 Perf unless otherwise specified

.TABLE B - TELECINE TO SDTV THROUGHPUT RATES

	SDTV						
35 mm Film	480 x 640 Scan			480 x 704 Scan			
Format ¹	Exposure (µs)	Rate (FPS)	x Real-Time (24 FPS)	Exposure (µs)	Rate (FPS)	x Real-Time (24 FPS)	
Full-Frame (Super 35)		190.29	7.93		173.09	7.21	
Academy	10.73	164.49	6.85	11.80	149.62	6.23	
Anamorphic		164.49	6.85		149.62	6.23	
1.85:1		122.08	5.09		111.04	4.63	
3 Perf 1.85:1		145.94	6.08		132.75	5.53	
TV 4:3		159.10	6.63		144.72	6.03	
TV 16:9		137.66	5.74		125.22	5.22	
3 Perf TV 16:9		145.94	6.08		132.75	5.53	

¹4 Perf unless otherwise specified

TABLE C - TELECINE TO HDTV THROUGHPUT RATINGS

	HDTV						
35 mm Film	720 x 1280 Scan			1080 x 1920 Scan			
Format ¹	Exposure (µs)	Rate (FPS)	x Real-Time (24 FPS)	Exposure (µs)	Rate (FPS)	x Real-Time (24 FPS)	
Full-Frame (Super 35)		63.63	2.65		28.31	1.18	
Academy	21.40	55.00	2.29	32.07	24.47	1.02	
Anamorphic		55.00	2.29		24.47	1.02	
1.85:1		40.82	1.70		18.16	0.76	
3 Perf 1.85:1		48.80	2.03		21.71	0.90	
TV 4:3		53.20	2.22		23.67	0.99	
TV 16:9		46.03	1.92		20.48	0.85	
3 Perf TV 16:9		48.80	2.03		21.71	0.90	

¹4 Perf unless otherwise specified

TABLE D - VIDEO OUTPUT FORMATS

	Video I	Format	Interlace	Aspect Ratio	Frame Rates ¹ (Hz)	Film Input Scan Rate (FPS)	Real-Time Telecine Throughput ²
		NTSC	i	4:3	29.97	48	x 5
TV		PAL	i	4:3	25	48	x 5
		SECAM	i	4:3	25	48	x 5
DTV	SDTV	480 x 640	i	4:3	30	48	x 5
		480 x 640	Р	4:3	24, 30, 60	48	x 5
		480 x 704	j	16:9	30	48	x 2
		480 x 704	Р	16:9	24, 30, 60	48	x 2
		720 x 1280	Р	16:9	24, 30, 60	. 24	x 1
	HDTV	1080 x 1920	i	16:9	30	18	x ¾
		1080 x 1920	Р	16:9	24, 30	18	x ¾

¹with requisite pulldowns ²with film shot at 24 FPS